



MLS 608 D Series • Setup Guide

The Extron MLS 608 D Series are eight input, multi-format AV switchers with ProDSP™ audio and are able to integrate analog and digital sources. There are three models:

- MLS 608 D (with variable preamp output - no amplifier)
- MLS 608 D MA (with 40 watt 70 volt mono power amplifier)
- MLS 608 D SA (with 2 x 20 watt stereo power amplifier)

This guide allows you to easily and quickly setup and configure your MLS 608 D using step by step instructions. It covers performing basic operations using the front panel controls and selected Simple Instruction Set (SIS™) commands.

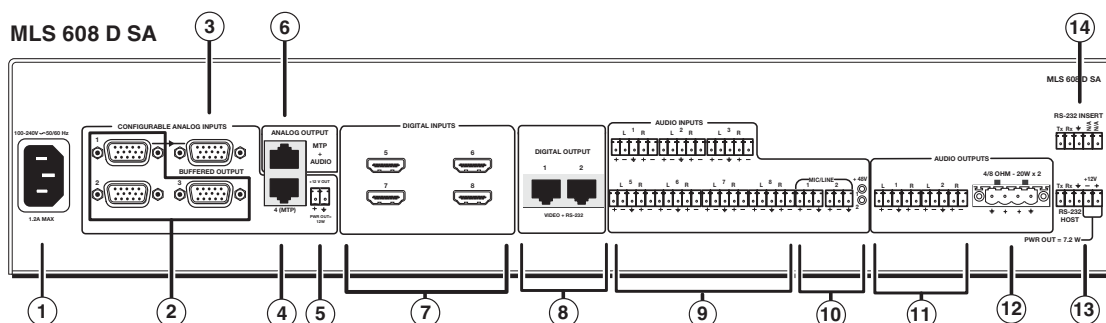
It also gives connection information for the MTP HDMI U R twisted pair receiver, which is supplied with the MLS 608 D Series unit.

See rear cover for a diagram of a typical MLS 608 D application, showing the MLS 608 D SA model.

NOTE: For full installation, configuration, and operation details for all MLS 608 D models, see the *MLS 608 D Series User Guide*, and for complete details on the MTP HDMI U R, see the *MTP HDMI U R User Guide*, both available at www.extron.com.

Rear Panel Features — MLS 608 D and MTP HDMI U R

NOTE: The MLS 608 D SA, as shown below, is representative of the MLS 608 D Series. It has the maximum number and type of connectors and features of the three models. The MLS 608 D model lacks the power amplifier output.



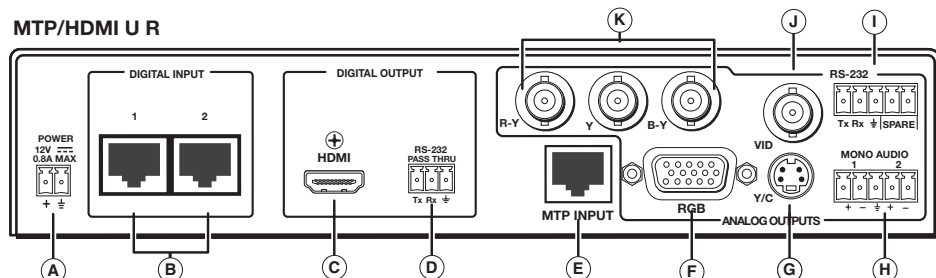
Power, Analog, and Digital Connections

- ① AC power connector
- ② RGB, component/S-video/composite inputs: 15-pin HD connectors (inputs 1-3, see rear page for pinout details)
- ③ Buffered output: 15-pin HD connector (tied only to input 1)
- ④ Universal MTP RJ-45 connector (input 4, see rear page for pinout details)
- ⑤ 12 V output MTP/HDMI U R power source: 2-pole captive screw connector
- ⑥ Analog video and audio MTP output: RJ-45 connector
- ⑦ Digital inputs: HDMI connectors (inputs 5-8)
- ⑧ Digital video and RS-232 outputs: RJ-45 connectors

Audio and RS-232 Connections

- ⑨ Audio inputs: 5-pole captive screw connectors (inputs 1-3, 5-8)
- ⑩ Mic/line level audio inputs (1-2): 3-pole captive screw connectors and phantom power LEDs
- ⑪ Line level audio output: 5-pole captive screw connectors (audio outputs 1-2)
- ⑫ Power amplifier output connector (MA and SA units only)
- ⑬ RS-232 control/configuration port and +12 V power output (for optional MLC power source): 5-pole captive screw connector
- ⑭ RS-232 insertion pass-through port: 5-pole captive screw connector

MTP/HDMI U R



- | | | |
|-----------------------------------|-----------------------|---|
| Ⓐ Power input | Ⓔ MTP input | Ⓘ RS-232 port (analog side), not used in MLS 608 D system |
| Ⓑ Digital signal inputs (1 and 2) | Ⓕ RGBHV, RGBS output* | Ⓝ Composite video output* |
| Ⓒ Digital (HDMI) output | Ⓖ S-video output* | Ⓚ Component video (R-Y, Y, B-Y) output* |
| Ⓓ RS-232 pass-through connector | Ⓗ Mono audio output | |

* = Analog outputs

IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

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Twisted Pair (TP) Cable Transmission Distance

CAUTION: Do not connect the MTP cable to any LAN port, telecommunications network, or digital video output port. Likewise, do not connect a LAN cable to any MTP or digital video output port.

There are different maximum distances for analog and digital signals.

Analog signals —

The maximum distance is determined by the frequency and resolution of the signal that is input to the MLS 608 D. The table below specifies the recommended maximum transmission distances using Extron Enhanced Skew-Free™ A/V UTP cable or UTP CAT 5, 5e, or 6 cable, terminated with RJ-45 connectors.

NOTE: The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphics card, and display used in the system.

Video Format	Maximum Transmission Distances for Analog Signals at 60 Hz for MLS 608 D					
	With Pre-Peak Off Feet (Meters)	With Pre-Peak On Feet (Meters)	Max. Distance (High Quality) Feet (Meters)		Max. Distance (Variable Quality) Feet (Meters)	
			Input (from source)	Output (to receiver)	Input	Output
Composite, S-video	<300 (90)	>350 (105)	700 (215)	700 (215)	700 (215)	800 (245)
Component Video	<300 (90)	>350 (105)	700 (215)	700 (215)	750 (230)	750 (230)
1024x768*	<300 (90)	>350 (105)	450 (135)	450 (135)	550 (170)	550 (170)
1280x1024*	<250 (75)	>300 (90)	350 (105)	350 (105)	450 (135)	450 (135)
1600x1200*	<250 (75)	>300 (90)	300 (90)	300 (90)	450 (135)	450 (135)
1920x1200	<200 (60)	>250 (75)	300 (90)	250 (75)	400 (120)	400 (120)
HDTV 720p	<250 (75)	>300 (90)	400 (120)	400 (120)	500 (150)	500 (150)
HDTV 1080p	<250 (75)	>250 (75)	300 (90)	250 (75)	400 (120)	400 (120)

* same spec at 75 Hz

For any transmission distances beyond 350 feet (100 m), turn on the pre-peak function on the transmitting device (MTP transmitter).

Digital signals —

NOTES:

- The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphic card, and display used in the system.
- DO NOT use Extron UTP23SF-4 Enhanced Skew-Free A/V cable to link the switcher digital output port and the MTP/HDMI U R receiver. Use of this cable will cause problems with the digital signal input side of the receiver.
- For resolutions of 1600x1200, 1920x1200, and 1080p, Extron strongly recommends STP201 cable, or equivalent. STP201 cable consists of four individually shielded copper pairs and an overall braided shield that help reduce crosstalk and extend these resolutions up to 150 feet (45 m).
- It is important to ensure the cable from output 1 on the switcher (see page 1, ⑧) is connected to input 1 on the receiver (see page 1, ⑨).

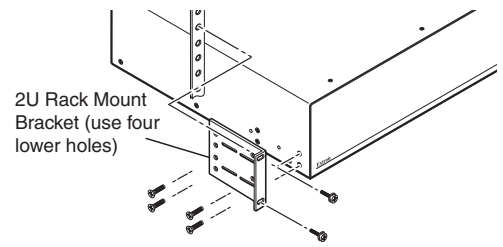
Likewise, output 2 on the switcher must be connected to input 2 on the receiver.

Resolution	Maximum Transmission Distance for Digital Signals at 60 Hz from MLS to MTP/HDMI U R		
	UTP CAT 5/5e/6 Feet (Meters)	STP CAT 5/5e/6 Feet (Meters)	STP201 Feet (Meters)
1024x768	200 (61)	200 (61)	200 (61)
1600x1200	100 (38)	125 (38)	150 (46)
1920x1200	100 (38)	125 (38)	150 (46)
720p	200 (61)	200 (61)	200 (61)
1080i	200 (61)	200 (61)	200 (61)
1080p	100 (38)	125 (38)	150 (46)

Installation and Cabling

Step 1 — Mount the Switcher

Turn off or disconnect all equipment power sources and rack mount the MLS 608 D using the two supplied brackets (see image at right).



Step 2 — Connect MLS 608 D Inputs

Video — Connect inputs from video sources to the applicable connectors marked “Inputs” (see ②, ④, and ⑦ on page 1 for connector types).

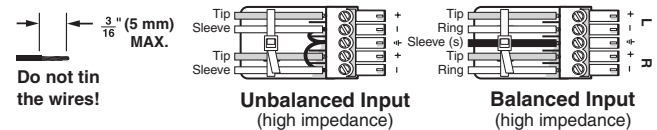
- ② Inputs 1-3 — RGB (RGBHV, RGBs, or RGsB), component (bi- or tri-level), S-video, or composite video signals. See rear cover for connector pin-out table.
- ④ Input 4 — Universal MTP (video and audio) input on CAT 5, 5e, or 6 twisted pair cabling

CAUTION: Do not connect the MTP cable to any LAN port, telecommunications network, or digital video output port. Likewise, do not connect a LAN cable to any MTP, or digital video output port.

- ⑦ Inputs 5-8 — Digital HDMI (HDMI 1.3) and DVI-D (using an adapter cable) inputs

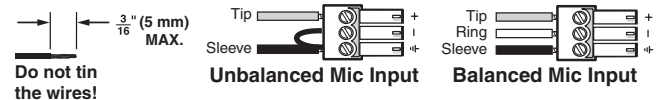
Audio — Connect inputs from audio sources to the applicable connectors marked “Inputs” (see ④, ⑨, and ⑩ on page 1 for connector types).

- ⑨ Inputs 1-3 and 5-8 (line level analog stereo). Wire as shown at right.
- ④ Input 4 (see ④ above).



NOTE: HDMI inputs 5-8 have the capability to de-embed source input audio (default setting).

- ⑩ Mic/line inputs 1-2 (mono). Wire as shown at right.



NOTE: These inputs have +48 V phantom power available, and the LEDs light when power is present. This power is turned on or off via software. “Off” is the default setting.

Step 3 — Connect MLS 608 D Outputs

NOTE: For TP cables with RJ-45 connectors, use the same standard (T568A or T568B) at both ends. See rear cover for details.

Video — Connect video output devices to the applicable connectors marked “Outputs” (see ③, ⑥ and ⑧ on page 1).

- ③ Buffered output — This signal is always tied to input 1, RGB (RGBHV, or RGBs), component (bi- or tri-level), S-video, or composite video signals.
- ⑥ Analog video output from inputs 1-4, output on CAT 5, 5e, or 6 twisted pair cabling to the MTP/HDMI U R receiver (see ⑥ on page 1)
- ⑧ Digital video and RS-232 outputs on CAT 5, 5e, or 6 twisted pair cabling to MTP/HDMI U R receiver (see ⑧ on page 1)

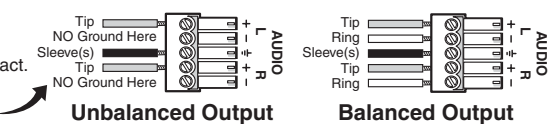
Audio — Connect audio output devices to the applicable connectors marked “Outputs” (see ⑥, ⑪ and ⑫ on page 1).

- ⑥ MTP analog audio output (line level mono only) on CAT 5, 5e, or 6 twisted pair cabling
- ⑪ Two line level audio outputs. Wire as shown at right.



CAUTION

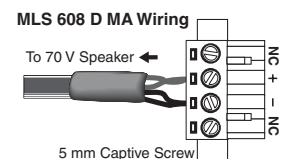
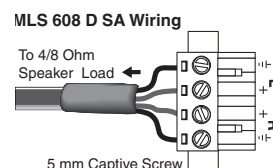
For unbalanced audio, connect the sleeve(s) to the ground contact. **DO NOT** connect the sleeve(s) to the negative (-) contacts.



- ⑫ Power amplifier output, either as 2-channel stereo, 20 watts per channel (MLS 608 D SA model) or mono audio, 40 watts per channel, 70 volts (MLS 608 D MA model). Wire as shown at below right.

CAUTIONS:

- Do not connect L and R output channels to each other, or to ground. Doing so will short the outputs and damage the amplifier.
- Do not short the “+” and “-” connectors together. Doing so will damage the amplifier.



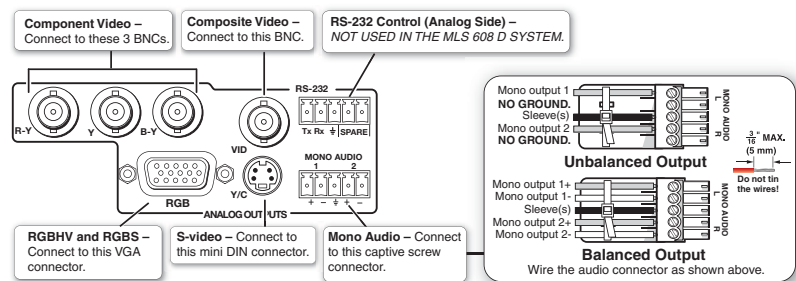
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Step 4 — Connect Outputs from MTP/HDMI U R

Digital video — Connect a display to the HDMI connector for digital video output.

Analog video — Connect the analog outputs as shown at right.

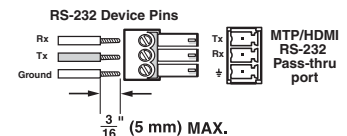
Audio — Connect a suitable audio device, such as powered speakers, to the 5-pole captive screw audio output connector for a balanced or unbalanced, dual mono audio signal. Wire connector as shown at right.



NOTE: The audio signal is detected on the MTP input and then is distributed to the audio connector for output.

RS-232 control (digital side) — Connect a serial communications port on a display device to the 3.5 mm, 3-pole captive screw connector (labeled RS-232 pass-thru) for pass-through RS-232 bidirectional communication. Wire the connector as shown at right.

NOTE: The RS-232 control port on the analog side is not used in the MLS 608 D system.



Step 5 — Connect Control Devices

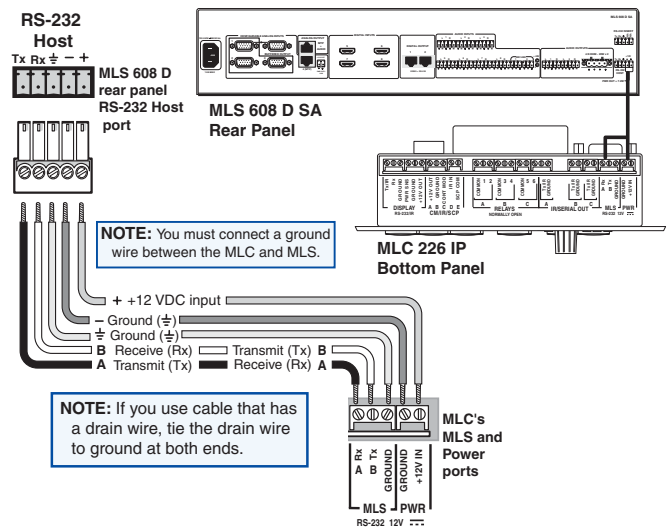
RS-232 control — Connect a host computer or control system (such as an optional MLC 226) to the 5-pin connector (see ⑬ on page 1) for MLS switcher configuration and control via RS-232 using Extron software or Simple Instruction Set (SIS) commands. Wire the MLS as shown at right.

NOTE: This serial port is independent of the front panel configuration port. Both may be used for MLS control.

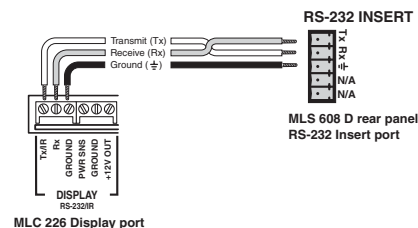
RS-232 protocol (default values):

- 38400 baud • 1 stop bit • no parity • 8 data bits • no flow control

NOTE: The '+' and '-' pins on this connector can be used to power a controller, for example an MLC 226 IP and a connected IRCM-DV+.



RS-232 Insert port (optional) — Connect an optional control device (for example an MLC 226 IP via the RS-232 display control port) to the 5-pin connector (see ⑭ on page 1) for pass through RS-232 communication to a connected projector or display device. Wire the connection as shown at right.



Step 6 — Connect Power

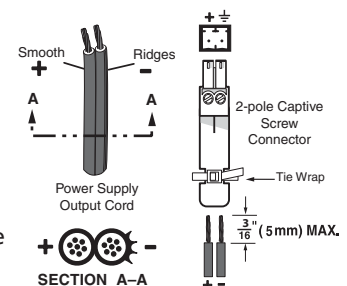
MLS 608 D — Plug in a standard IEC power cord from a 110 - 240 VAC, 50 - 60 Hz power source into the receptacle (see ① on page 1).

Optional — Connect the 2-pole power connector (see ⑤ on page 1) for remote power to an MTP transmitter or receiver. Wire the connection as shown at right.

Optional — Connect the "+" and "-" pins on the RS-232 connector (see ⑬ on page 1) for remote power to an optional controller (such as the MLC 226). See second note, step 4 above.

MTP/HDMI U R — Connect the 2-pole 3.5 millimeter captive screw connector from the 12 VDC, 1.0 A external power supply (provided) to this receptacle on the rear panel, or connect to the 2-pole power connector (see ⑤ on page 1) on the MLS 608 D. Wire connector as shown at right.

For both devices, when power is applied the front panel power LED lights.



Optimizing Video

Setting the Peaking and Level on the MTP/HDMI U R

Image sharpness is adjusted with the front panel **Peaking** adjustment knob. This applies only to the analog side of the device. Increased peaking compensates for mid- and high-frequency detail loss. Minimum setting (full counterclockwise) is zero peaking. Image brightness is adjusted using the **Level** adjustment knob.

NOTE: To avoid possible video loss due to errors in the video format detection, the user should always start with minimal level and peaking, then increase values as required.

Adjusting level and peaking between the MLS 608 D and the receiver

1. Connect an oscilloscope (preferred) or a monitor (acceptable) to the RGB output of the MTP/HDMI U R receiver.
2. If using an oscilloscope, apply a white field test pattern to inputs 1, 2, or 3 on the MLS 608 D. The Extron VTG 300 or VTG 400 is recommended to provide the test pattern.
3. If using a monitor, apply a grayscale or color bars test pattern to the input.

NOTE: The signal applied should be an RGB signal.

4. Observe the oscilloscope (or monitor) while you adjust the front panel input level and peaking controls to compensate for signal loss between the MLS 608 D and the MTP/HDMI U R.

Setting level and peaking via software if using Input 4 on the MLS 608

Follow the steps 1 to 3 as given in "Adjusting level and peaking..." above. Then:

1. Start the DSP Configurator software program and connect to your device. See page 7 for software installation details.
2. Click **View > Video I/O** (or press <F4>); this changes the window to the MLS workspace view. Double click on the MTP on the input 4 (left) side of the workspace view. The Input MTP Settings dialog box appears (see image at right).
3. Observe the oscilloscope (or monitor) and adjust the level using the slider. Adjust the peaking by using the up and down arrows. Disconnect test equipment when finished.

Setting the Skew on the MLS 608 D

Adjusting output skew between the MLS 608 D and the receiver:

1. Connect an oscilloscope (preferred) or a monitor (acceptable) to the RGB output on the MTP/HDMI U R.
2. Apply a crosshatch test pattern to input 1, 2, or 3 on the MLS 608 D.
3. Use the test equipment or examine the video image with a critical eye to determine which video signal (red, green, or blue) is most shifted to the left.
4. Within the DSP Configurator program, click **View > Video I/O** (or press <F4>) to access the MLS workspace view. Double-click MTP on the output (right) side of the workspace view. The Output MTP Settings dialog box appears (see image above).
5. Adjust the furthest left video signal by using the up and down arrows for the relevant signal color, and repeat as needed until all three colors are aligned correctly.

Adjusting input skew if using Input 4

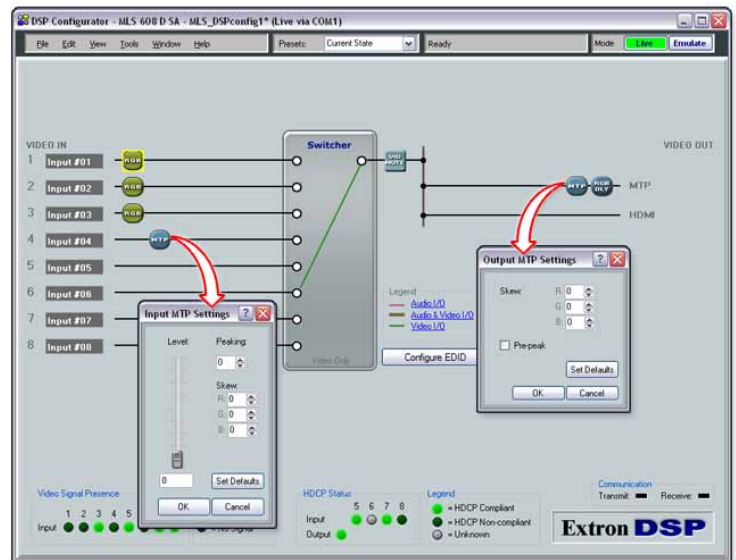
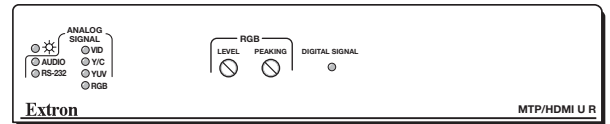
Follow the steps 1 to 3 as given in "Output skew", above. Then:

1. Within the DSP Configurator program, click **View > Video I/O** (or press <F4>) to access the MLS workspace view. Double-click MTP on the output (right) side of the workspace view. The Output MTP Settings dialog box appears.
2. Adjust the furthest left video signal by using the up and down arrows for the relevant signal color, and repeat as needed until all three colors are aligned correctly.

Selecting the MLS 608 D Output Prepeaking

1. Click **View > Video I/O** (or press <F4>); this changes the window to the MLS workspace view. Double-click on the MTP on the output (right) side of the workspace view. The Output MTP Settings dialog box appears.
2. Toggle the Pre-peak box on or off as desired.

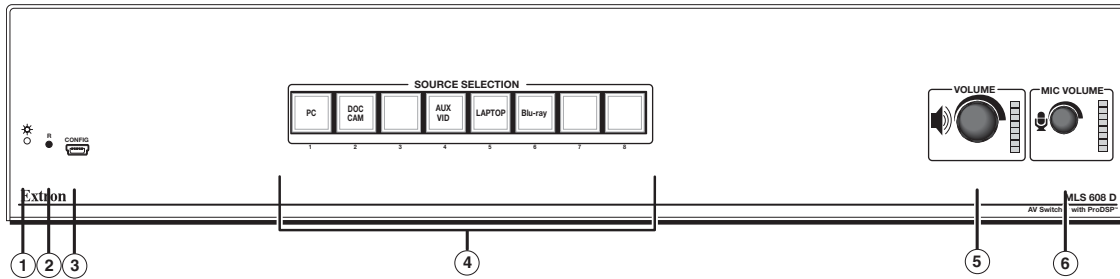
NOTE: For other video configurations, such as RGB delay or input video format swapping, see the *DSP Configurator Help* file.



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Front Panel Features

All models have the following front panel features:



- ① Power/reset status LED
- ② Reset button (recessed)
- ③ USB configuration port
- ④ Input selection buttons (8)
- ⑤ Program volume control (adjustment knob)
- ⑥ Mic volume control (adjustment knob)

Front Panel Operation

NOTE: For operation details for all models, see the *MLS 608 D Series User Guide*, available at www.extron.com.

- ① **Power/reset status LED** — This LED lights green when power is applied, and amber when in standby mode. It also indicates the reset mode when the reset button is being operated (see below).
- ② **Reset button** — In order to reset the MLS switcher to one of two available reset modes via the front panel, press and hold this recessed button in and observe the LED for confirmation of unit resetting.

Reset Mode 1, Use factory firmware — To reset temporarily to the factory default firmware, press and hold the reset button in while applying power to the unit.

NOTES:

- After a Mode 1 reset, update the firmware to the latest version. DO NOT use the factory firmware resulting from the reset. Factory firmware must be re-uploaded if that is the version to be used.
- If you do not want to update the firmware, recycling the power reinstates the firmware version used before the Mode 1 reset.

Reset Mode 5, Reset to factory default — To reset the device to factory defaults (with the exception of the firmware), press and hold in the reset button for approximately 9 seconds, until the LED blinks three times (once at 3 seconds, 6 seconds, and 9 seconds), and then release.

Within 1 second press and release the reset button once (<1 second). Nothing will happen if the momentary press is not made within 1 second.

- ③ **Front panel mini USB configuration port** — Connect a computer to this port, using a mini USB cable (not supplied), for configuration, control, and firmware upgrades.

NOTE: For details of device configuration via software, SIS commands, and firmware updating for all models, see the *DSP Configurator Help* file or the *MLS 608 D Series User Guide*, both available at www.extron.com.

- ④ **Source selection buttons** — Use these buttons to select or switch between inputs. The button lights amber to indicate which input is active.
- ⑤ **Program volume adjustment knob** — Use this to set or adjust the program output volume (attenuation, from -100 dB to 0 dB) as desired. The LEDs indicate the volume level (all off at -100 dB, all on at -4 to 0 dB). Rotate the knob clockwise to increase volume, counter-clockwise to decrease volume. See table at right for LED/dB values.
- ⑥ **Mic volume adjustment knob** — Use this knob to set or adjust the volumes of the two mic inputs (see page 1, ⑩) as desired. The LEDs indicate the volume level. Rotate the knob clockwise to increase volume, counterclockwise to decrease volume.

NOTE: The system and microphone volume settings and adjustments can be made using Extron DSP Configurator program or via SIS commands. See the *MLS 608 D User Guide* for details.

VOLUME	LED equivalent dB value
	-4 to 0
	-9 to -5
	-14 to -10
	-19 to -15
	-29 to -20
	-49 to -30
	-69 to -50
	-99.9 to -70
	-100 (all LEDs off)

Using the DSP Configurator™ Software

The MLS can be configured using the DSP Configurator software from the supplied DVD or downloaded from www.extron.com.

To upload from the DVD:

Place the disc in the DVD drive and install the program onto a local PC that is connected to the MLS 608 D.

To download from the Extron website:

1. At the home page, click the **Download** tab and click **Software** (at left side of page).
2. Navigate to the DSP Configurator file and click **Download**.
3. Log in with your Extron website account. If you do not have one, contact the [Extron S3 Sales and Technical Support Hotline](#).
4. Download the file and install it on the PC.

To use the software, open the program and at the main window click **Help**, **Contents** (or press **F1**) and follow the instructions.

Basic Simple Instruction Set (SIS) Commands

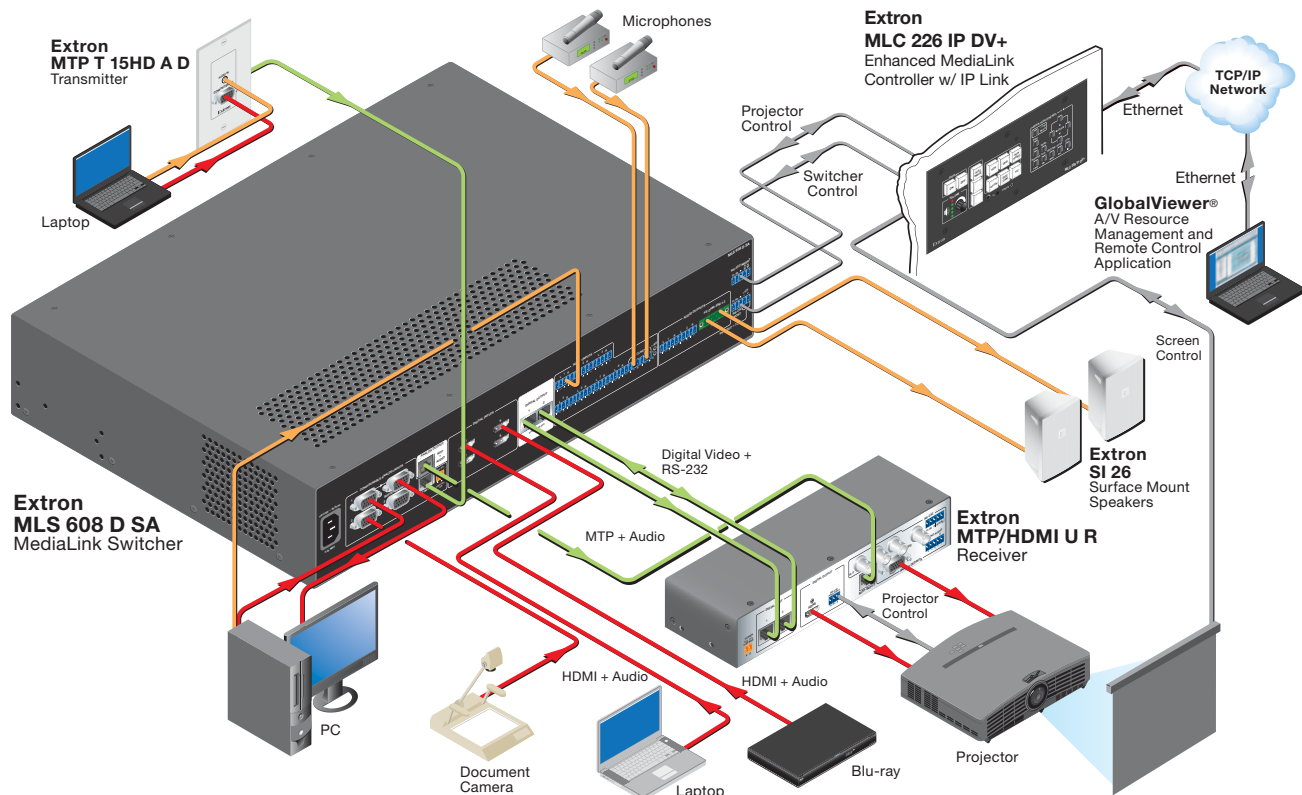
The table below lists some basic SIS commands for the MLS 608 D. See the *MLS 608 D User Guide* for a complete SIS list.

Commands	ASCII command (host to switcher)	Response (switcher to host)	Additional description
Input selection — video and audio	[X1]!	Chn [X1]	Select video and audio from inputs 0-8 source [X1] .
Set program volume gain (dB) value <i>Examples:</i>	[Esc] d1 * [X29] GRPM [Esc] d1 *0 GRPM [Esc] d1 * - 100 GRPM [Esc] d1 * - 1000 GRPM	GrpmD01 * [X29] GrpmD01 * +00000 GrpmD01 * - 00100 GrpmD01 * - 01000	Set a program gain value to [X29] . Sets the program gain value to 0 dB. Sets the program gain value to -10 dB. Sets the program gain value to -100 dB.
Increment gain	[Esc] d1 * [X28] + GRPM	GrpmD01 * [X29]	Increase program volume.
Decrement gain	[Esc] d1 * [X28] - GRPM	GrpmD01 * [X29]	Decrease program volume.
View master value	[Esc] d1 GRPM	[X29]	View the current program volume.
Set Mic volume gain (dB) value	[Esc] d2 * [X29] GRPM	GrpmD02 * [X29]	Set a microphone volume gain value to [X29] .
Increment gain	[Esc] d2 * [X28] + GRPM	GrpmD02 * [X29]	Increase microphone volume.
Decrement gain	[Esc] d2 * [X28] - GRPM	GrpmD02 * [X29]	Decrease microphone volume.
View master value	[Esc] d2 GRPM	[X29]	View the current microphone volume.
Turn power save mode off	[Esc] 0 PSAV	Psav0	Turn power save mode off.
Turn power save mode on	[Esc] 1 PSAV	Psav1	Turn power save mode on.
Query power save status	[Esc] PSAV	0 (or) 1	View the current status (0 = off [default], 1 = on).
Reset all video and audio settings to factory default	[Esc] ZXXX	Zpx	Resets all video and audio settings.
Reset all settings to factory default	[Esc] ZQQQ	Zpq	Resets all video and audio settings and protected configuration settings.
Enable Executive mode 1	1X	Exe1	Lock the front panel buttons and knobs.
Enable Executive mode 2	2X	Exe2	Lock the front panel buttons only.
Disable Executive mode	0X	Exe0	Unlock all the front panel.
View Executive mode status	X	0 (or) 1 (or) 2	View the current status: 0 = off [default]; 1 = on, lock all buttons and knobs; 2 = on, lock input buttons only.
Mute HDMI audio output	1Z	Amt1	Mute HDMI audio output.
Unmute HDMI audio output	0Z	Amt0	Unmute HDMI audio output.
View HDMI audio mute status	Z	0 (or) 1	View mute status (0 = mute off, 1 = mute on).
Mute overall volume output	[Esc] D5*1 GRPM	GrpmD05*1	Mute overall volume output (1 = on).
Unmute overall volume output	[Esc] D5*0 GRPM	GrpmD05*0	Unmute overall volume output, (0 = off).
View overall volume output status	[Esc] D5 GRPM	+00000 (or) +00001	View mute status (+00000 = mute off, +00001 = mute on).

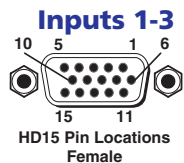
NOTE: **[X1]** = Input connection, 0 – 8, 0 = no connection
[X28] = Incremental or decremental value in 0.1 dB steps, multiply by 10 (10 = 1.0 dB)
[X29] = Master volume values, multiplied by 10

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Typical Application for MLS 608 D Series, Showing the MLS 608 D SA



Connector and Cable Information



Pin	RGBHV	RGBs	RGsB	RsGsBs	Component	S-video	Composite
1	Red	Red	Red	Red/Sync	R-Y	Chroma	
2	Green	Green	Green/Sync	Green/Sync	Y	Luma	Video
3	Blue	Blue	Blue	Blue/Sync	B-Y		
4	ID Bit	ID Bit	ID Bit	ID Bit			
5	N/C	N/C	N/C	N/C			
6	Red Return	Red Return	Red Return	Red Return	R-Y Return	C Return	
7	Green Return	Green Return	Green Return	Green Return	Y Return	L Return	Video Return
8	Blue Return	Blue Return	Blue Return	Blue Return	B-Y Return		
9							
10	Ground	Ground	Ground	Ground			
11	ID Bit	ID Bit	ID Bit	ID Bit			
12	ID Bit	ID Bit	ID Bit	ID Bit			
13	H Sync	C Sync					
14	V Sync						
15	ID Bit	ID Bit	ID Bit	ID Bit			

Twisted Pair RJ-45 Cabling

RJ-45 Connector

Plins:
12345678



Insert Twisted
Pair Wires

Pin	T568A Wire Color	T568B Wire Color
1	White-green	White-orange
2	Green	Orange
3	White-orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Orange	Green
7	White-brown	White-brown
8	Brown	Brown

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